

# **AIR FORCE QUALIFICATION TRAINING PACKAGE (AFQTP)**



for  
STRUCTURAL  
(3E3X1)

**MODULE 12**  
**AFS SPECIFIC SAFETY**

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Career Field Education and Training Plan (CFETP) references from 1 Apr 97 version.

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**AIR FORCE QUALIFICATION TRAINING PACKAGES**  
**for**  
**STRUCTURAL**  
**(3E3X1)**

**INTRODUCTION**

*Before starting this AFQTP*, refer to and read the “Trainee/Trainer Guide” located on the AFCESA Web site <http://www.afcesa.af.mil/>

*AFQTPs are mandatory and must be completed* to fulfill task knowledge requirements on core and diamond tasks for upgrade training. *It is important for the trainer and trainee to understand* that an AFQTP ***does not*** replace hands-on training, nor will completion of an AFQTP meet the requirement for core task certification. AFQTPs will be used in conjunction with applicable technical references and hands-on training.

*AFQTPs and Certification and Testing (CerTest) must be used as minimum upgrade requirements for Diamond tasks.*

**MANDATORY minimum upgrade requirements:**

***Core task:***

AFQTP completion  
Hands-on certification

***Diamond task:***

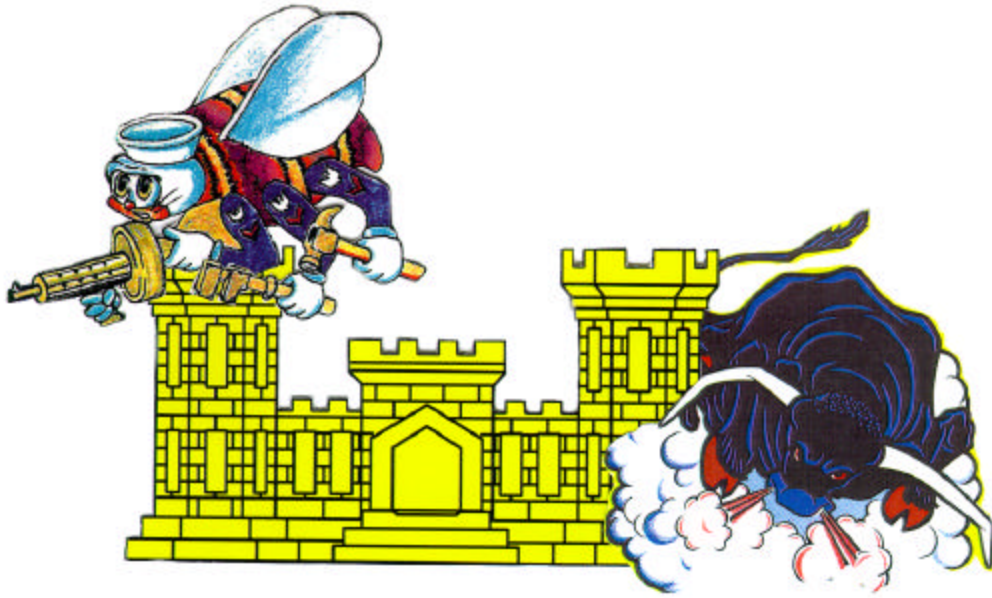
AFQTP completion  
CerTest completion (80% minimum to pass)

***Note:*** *Trainees will receive hands-on certification training for Diamond Tasks when equipment becomes available either at home station or at a TDY location.*

***Put this package to use.*** Subject matter experts under the direction and guidance of HQ AFCESA/CEOT revised this AFQTP. If you have any recommendations for improving this document, please contact the Structures Career Field Manager at the address below.

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**Notice.** This AFQTP is ***NOT*** intended to replace the applicable technical references nor is it intended to replace hands-on training. It is to be used in conjunction with these for training purposes only.



## EXERCISE SAFETY PRECAUTIONS WHEN:

MODULE 12

AFQTP UNIT 3

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### HANDLING COMPRESSED GAS CONTAINERS (12.3.5.)

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**HANDLING COMPRESSED GAS CONTAINERS*****Task Training Guide***

<b>STS Reference Number/Title:</b>	12.3.5. Handling compressed gas containers
<b>Training References:</b>	<ul style="list-style-type: none"><li>• 3E351 CDCs</li><li>• Welding skills by R.T. Miller</li></ul>
<b>Prerequisites:</b>	<ul style="list-style-type: none"><li>• Possess as a minimum, a 3E3X1 AFSC</li></ul>
<b>Equipment/Tools Required:</b>	<ul style="list-style-type: none"><li>• Gloves, Steel toed boots</li></ul>
<b>Learning Objective:</b>	<ul style="list-style-type: none"><li>• Individual should be able to move compressed gas containers without supervision.</li></ul>
<b>Samples of Behavior:</b>	<ul style="list-style-type: none"><li>• Trainee will be able to successfully and safely move gas containers.</li></ul>
<b>Notes:</b>	
<ul style="list-style-type: none"><li>• Any safety violation will result in a failure.</li></ul>	

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## HANDLING COMPRESSED GAS CONTAINERS

**Background:** When performing oxyacetylene welding or cutting, the two most important things next to safety, are the gas cylinders. Each cylinder has gas under high pressure and can be very dangerous if handled carelessly.

To safely move a cylinder, always make sure the valve protector cap is on the cylinder. Place the palm of one hand over the protector cap and tilt the bottle toward you. Roll the cylinder on the bottom edge. Start the cylinder rolling by pushing it with the other hand.

There are several precautions you should be aware of when handling oxygen and acetylene cylinders:

1. Do not allow cylinders to lie on their side.
2. Never permit grease or oil to come in contact with the valve.
3. Avoid excess heat and sparks from the torch around the cylinders.
4. Never move a cylinder by dragging, sliding or rolling it on its side.
5. If cylinder valves cannot be opened by hand, **DO NOT** use a hammer or wrench to open it-notify the supplier.
6. When cylinders are not being used, ensure the protective cap is on.

**SAFETY:**

**IF THE VALVE CAN NOT BE OPENED CALL YOUR GAS DISTRIBUTOR.**

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**Review Questions**  
**for**  
**Handling Compressed Gas Containers**

<b>Question</b>	<b>Answer</b>
1. Each cylinder has gas under high pressure and is very dangerous.	a. True b. False
2. You can move a cylinder by dragging it on its side.	a. True b. False
3. Never allow grease or oil to come in contact with the valves.	a. True b. False
4. Describe how to correctly move compressed gas containers?	WRITTEN ANSWER

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**HANDLING COMPRESSED GAS CONTAINERS**

<b>Performance Checklist</b>		
<b>Step</b>	<b>Yes</b>	<b>No</b>
1. Was all safety equipment used during the task performance?		
2. Was the protective cap on the container while it was being moved?		
3. Were all precautions observed before moving the containers?		

**FEEDBACK:** Trainer should provide both positive and/or negative feedback to the trainee immediately after the task is performed. This will ensure the issue is still fresh in the mind of both the trainee and trainer.

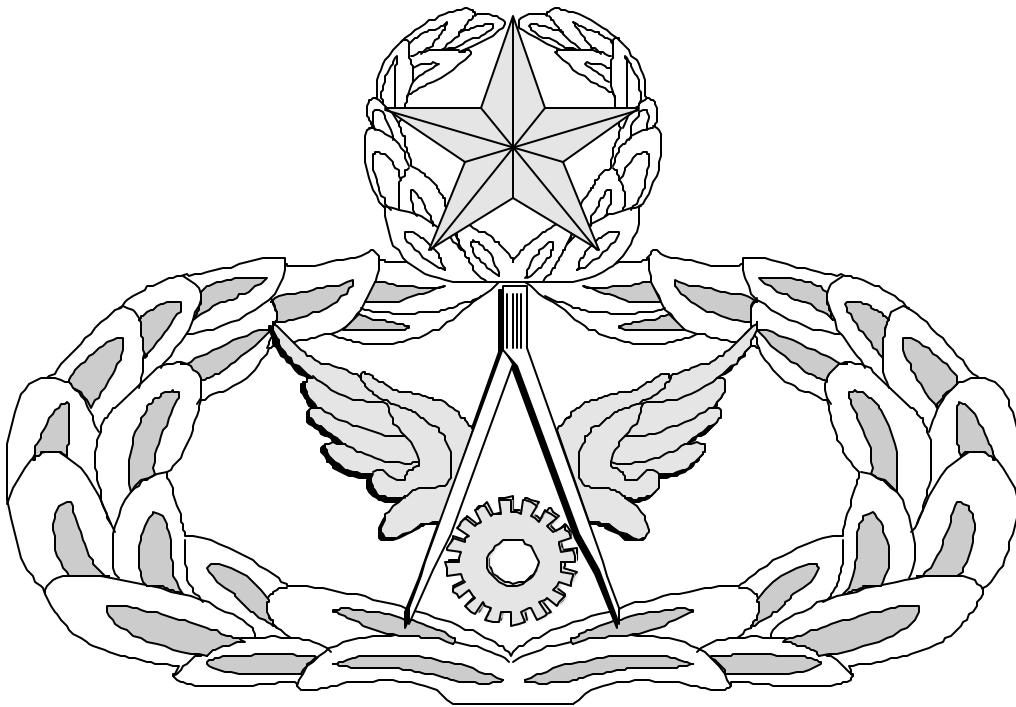
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# Air Force Civil Engineer

## QUALIFICATION TRAINING PACKAGE (QTP)

### REVIEW ANSWER KEY



For  
STRUCTURAL

(3E3X1)

MODULE 12

AFS SPECIFIC SAFETY

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**Key-1**

**HANDLING COMPRESSED GAS CONTAINERS**  
**(3E3X1-12.3.5.)**

Question	Answer
1. Each cylinder has gas under high pressure and is very dangerous.	a. True
2. You can move a cylinder by dragging it on its side.	b. False
3. Never allow grease or oil to come in contact with the valves.	a. True
4. Describe how to correctly move compressed gas containers?	Ensure the protective cap is secured properly to the cylinder. Then place the palm of one hand over the protective cap and tilt the cylinder toward you. Rotate the cylinder on the bottom edge by pushing it with other hand.

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